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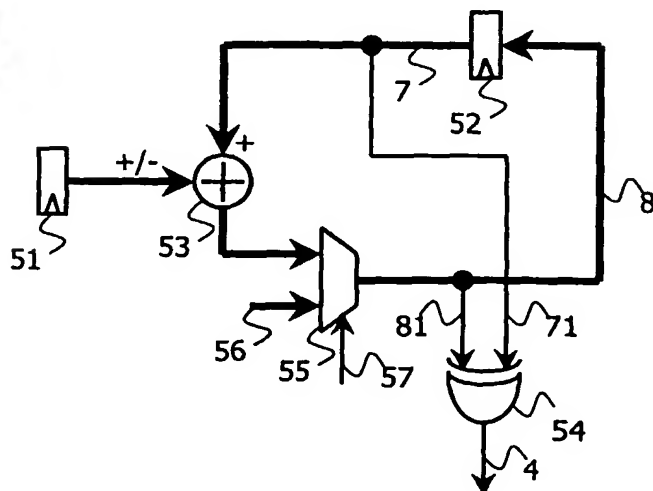
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— as to applicant's entitlement to apply for and be granted  
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CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE,  
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[Continued on next page]

(54) Title: DIGITAL SAMPLING FREQUENCY CONVERTER



(57) Abstract: The present invention relates to a  
converter converting an input digital signal into an output  
digital signal. Said converter comprises in particular a set  
of shift registers able to contain samples of the input or  
output digital signal. It also comprises a calculation unit  
able to supply a shift signal (4) to said set of registers.  
Said calculation unit comprises a first storage unit (51)  
able to contain a value of a conversion ratio or of its  
inverse, so that the value stored is between 0 and 1. It  
also comprises a second storage unit (52) able to contain,  
at a cycle time  $i+1$ ,  $i$  being an integer, a future signal  
(8) equal to a sum of a current signal (7) contained in  
the second unit at a cycle time  $i$  and of the content of the  
first storage unit. The shift signal then results from an  
exclusive OR function (54) between a most significant  
bit of the current signal (71) and a most significant bit  
of the future signal (81).

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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/184275 A1 (MOLTER DAVID ET AL) 5 December 2002 (2002-12-05) paragraphs '0040!', '0065!' - '0095!; figures 10,13	1-6
A	EP 0 695 032 A (MATSUSHITA ELECTRIC IND CO LTD) 31 January 1996 (1996-01-31) page 3, line 28 - page 5, line 47; figure 3	1,2,5,6

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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